



## INDUSTRIAL HYGIENE PROCEDURES

### **BULK SAMPLING FOR ASBESTOS CONTAINING MATERIALS**

November 12, 2003

#### **OBJECTIVE**

To provide required procedures when obtaining bulk samples of potentially asbestos containing material.

#### **EQUIPMENT**

- Zip lock bags or other airtight containers
- Spray bottles with water with soap added ("amended" water)
- Plastic drop cloths
- Coring tool or knife
- Duct tape or Encapsulate
- Pre-moistened Disposable Cloths
- HEPA Vacuum (if needed)
- Camera
- IH Sampling Notes Form
- Indelible Ink Pen
- Asbestos Disposal Bag
- Disposable coveralls, booties, gloves and as required a half face-piece respirator with HEPA filters
- Sample location and identification labels (available from the ES&H Section)

#### **PROCEDURES**

Bulk sampling must be conducted or supervised by an Environmental Protection Agency (EPA) accredited and an Illinois Department of Public Health licensed building inspector.

1. Prepare a diagram of the area where the sample is to be taken. Mark the location of the sample. Indicate on the form the type of material sampled.
2. If necessary, to preclude contamination of the floor, spread a plastic drop cloth under the sample area and set up other necessary equipment (ladder, etc.). 3. If needed, put on protective equipment.
4. Label the sample container with the sample ID#.
5. Obtain the sample from a damaged area if possible. Moisten the area where the sample is to be extracted with the water. Extract the sample using a clean cutting tool. Be sure to penetrate all layers of the material.
6. Place the sample in a container and seal the container.
7. Wipe the exterior of the container with the wet wipe.
8. Clean all tools and equipment with a wet wipe and, if necessary, wet mop or vacuum with a HEPA filter to clean debris.
9. Fill hole with caulking compound, duct tape, spackling, and/or spray with an encapsulate.
10. Take a picture of the area sampled. The photographer may add a pen/pencil/etc. to illustrate the size of an area
12. Place interim notice label on the material sampled.
13. Collect protective clothing, wet wipes, drop cloth, etc., in a 6-mil asbestos disposal bag. Disposal bag must be labeled, then removed from the area and stored until results are received.
14. The sample must be placed in a protective baggy and be transported in a Fermilab vehicle to the authorized/licensed laboratory. A completed chain of custody form must accompany the sample. The receiving party must sign the Chain of Custody letter, which is to be kept with the sample file. The laboratory doing the analysis will dispose of the sample and all other materials.
15. When results are received, place an appropriate label on the material sampled.